



10-02-02

2053

## AMENDMENT TRANSMITTAL LETTER

Docket No.  
I0270.0002/P002

Application No.  
10/050,539-Conf. #7739

Filing Date  
January 18, 2002

Examiner  
L. Nguyen

Art Unit  
2853

Applicant(s): Sunao Ishizaki

Invention: DRIVE CIRCUIT OF INK JET HEAD AND DRIVING METHOD OF INK JET HEAD

### TO THE COMMISSIONER FOR PATENTS

Transmitted herewith is an amendment in the above-identified application.

The fee has been calculated and is transmitted as shown below.

CLAIMS AS AMENDED					
	Claims Remaining After Amendment	Highest Number Previously Paid	Number Extra Claims Present	Rate	
Total Claims	8	- 20 =		x	0.00
Independent Claims	5	- 5 =		x	0.00
Multiple Dependent Claims (check if applicable) <input type="checkbox"/>					
Other fee (please specify):					
<b>TOTAL ADDITIONAL FEE FOR THIS AMENDMENT:</b>					0.00

Large Entity

Small Entity

No additional fee is required for this amendment.

Please charge Deposit Account No. \_\_\_\_\_ in the amount of \$ \_\_\_\_\_. A duplicate copy of this sheet is enclosed.

A check in the amount of \$ \_\_\_\_\_ to cover the filing fee is enclosed.

Payment by credit card. Form PTO-2038 is attached.

The Commissioner is hereby authorized to charge and credit Deposit Account No. 50-2215 as described below. A duplicate copy of this sheet is enclosed.

Credit any overpayment.

Charge any additional filing or application processing fees required under 37 CFR 1.16 and 1.17.

Michael J. Scheer  
Michael J. Scheer

Attorney Reg. No.: 34,425

Dated: September 30, 2002

DICKSTEIN SHAPIRO MORIN & OSHINSKY LLP  
1177 Avenue of the Americas  
41st Floor  
New York, New York 10036-2714  
(212) 896-5470

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as Express Mail, Airbill No. EV059556527US, in an envelope addressed to: Box Non-Fee Amendment, Commissioner for Patents, Washington, DC 20231, on the date shown below.

Dated: September 30, 2002

Signature: Michael J. Scheer (Michael J. Scheer)

SEP 30 2002

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

# FEE TRANSMITTAL for FY 2002

Patent fees are subject to annual revision.

 Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 110.00)

METHOD OF PAYMENT (check all that apply)

 Check  Credit Card  Money Order  Other  None
 Deposit Account  
 Deposit Account Number 50-2215

Deposit Account Name Dickstein Shapiro Morin &amp; Oshinsky LLP

The Commissioner is hereby authorized to: (check all that apply)

Charge fee(s) indicated below  Credit any overpayments  
 Charge any additional fee(s) during the pendency of this application  
 Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

## FEE CALCULATION

## 1. BASIC FILING FEE

Large Entity Small Entity

Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
101	740	201	370	Utility filing fee	
106	330	206	165	Design filing fee	
107	510	207	255	Plant filing fee	
108	740	208	370	Reissue filing fee	
114	160	214	80	Provisional filing fee	
SUBTOTAL (1) (\$)				0.00	

## 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	8	-20** =	x	=	0.00
Independent Claims	5	-5** =	x	=	0.00
Multiple Dependent				=	

Large Entity Small Entity

Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
103	18	203	9	Claims in excess of 20	
102	84	202	42	Independent claims in excess of 3	
104	280	204	140	Multiple dependent claim, if not paid	
109	84	209	42	** Reissue independent claims over original patent	
110	18	210	9	** Reissue claims in excess of 20 and over original patent	
SUBTOTAL (2) (\$)				0.00	

\*\*or number previously paid, if greater; For Reissues, see above

1 Complete if Known	
Application Number	10/050,539-Conf. #7739
Filing Date	January 18, 2002
First Named Inventor	Sunao Ishizaki
Examiner Name	L. Nguyen
Group Art Unit	2853
Attorney Docket No.	I0270.0002/P002

## FEE CALCULATION (continued)

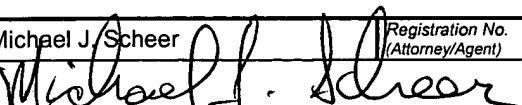
## 3. ADDITIONAL FEES

Large Entity Fee Code	Small Entity Fee Code	Fee (\$)	Fee (\$)	Fee Description	Fee Paid
105	130	205	65	Surcharge - late filing fee or oath	
127	50	227	25	Surcharge - late provisional filing fee or cover sheet	2800
139	130	139	130	Non-English specification	
147	2,520	147	2,520	For filing a request for ex parte reexamination	
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	
115	110	215	55	Extension for reply within first month	110.00
116	400	216	200	Extension for reply within second month	
117	920	217	460	Extension for reply within third month	
118	1,440	218	720	Extension for reply within fourth month	
128	1,960	228	980	Extension for reply within fifth month	
119	320	219	160	Notice of Appeal	
120	320	220	160	Filing a brief in support of an appeal	
121	280	221	140	Request for oral hearing	
138	1,510	138	1,510	Petition to institute a public use proceeding	
140	110	240	55	Petition to revive - unavoidable	
141	1,280	241	640	Petition to revive - unintentional	
142	1,280	242	640	Utility issue fee (or reissue)	
143	460	243	230	Design issue fee	
144	620	244	310	Plant issue fee	
122	130	122	130	Petitions to the Commissioner	
123	50	123	50	Processing fee under 37 CFR 1.17(q)	
126	180	126	180	Submission of Information Disclosure Stmt	
581	40	581	40	Recording each patent assignment per property (times number of properties)	
146	740	246	370	Filing a submission after final rejection (37 CFR 1.129(a))	
149	740	249	370	For each additional invention to be examined (37 CFR 1.129(b))	
179	740	279	370	Request for Continued Examination (RCE)	
169	900	169	900	Request for expedited examination of a design application	
Other fee (specify)				Extension for response within first month	

\*Reduced by Basic Filing Fee Paid

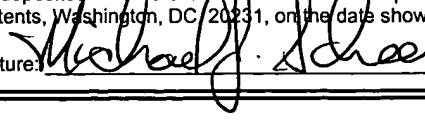
SUBTOTAL (3) (\$ 110.00)

\*\*or number previously paid, if greater; For Reissues, see above

SUBMITTED BY		Complete (if applicable)	
Name (Print/Type)	Michael J. Scheer	Registration No. (Attorney/Agent)	34,425
Signature		Telephone	(212) 896-5472
		Date	September 30, 2002

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Dated: September 30, 2002

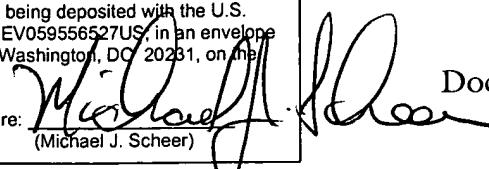
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Dated: September 30, 2002

Signature:   
(Michael J. Scheer)

Docket No.: I0270.0002/P002  
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:  
Sunao Ishizaki

Application No.: 10/050,539

Group Art Unit: 2853

Filed: January 18, 2002

Examiner: L. Nguyen

For: DRIVE CIRCUIT OF INK JET HEAD AND  
DRIVING METHOD OF INK JET HEAD

AMENDMENT

Box Non-Fee Amendment  
Commissioner for Patents  
Washington, DC 20231

Dear Sir:

In response to the Office Action dated May 31, 2002 (Paper No. 6), please amend the above-identified U.S. Patent application as follows:

In the Claims

1. (Amended) A drive circuit for an ink jet head having nozzles, pressure generating chambers filled with ink to be discharged from said nozzles, and piezoelectric actuators corresponding to respective pressure generating chambers, said ink jet head discharging ink droplets from said nozzles by changing volumes of said pressure generating chambers in response to a drive waveform signal applied to said piezoelectric actuators, said drive circuit comprising:

a waveform generator generating said drive waveform signal;

a power amplifier amplifying said drive waveform signal supplied to a first input of said power amplifier and outputting said drive waveform signal to said piezoelectric actuators; and

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